Ten years of experience with glued sleepers. Drevo 19 no.7: 251-253 J1 '64.

1. Research Institute of Transportation, Bratislava.

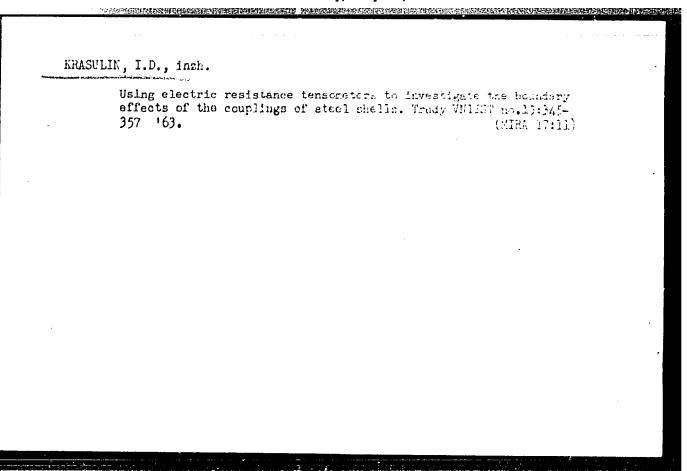
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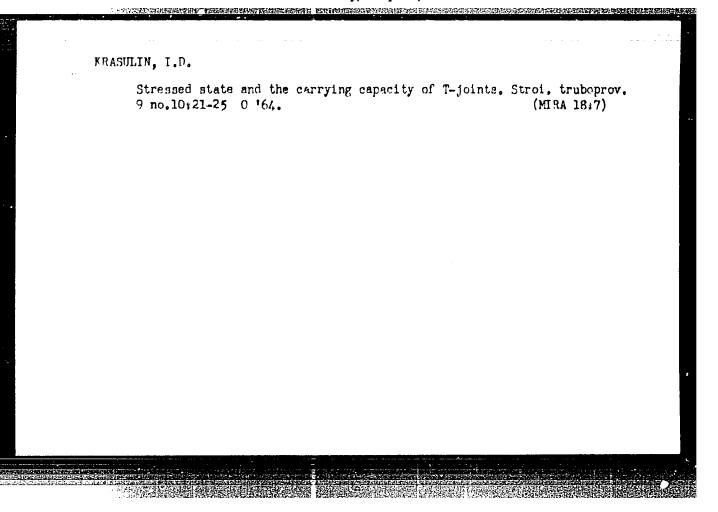
GIYZIN, I., inzh.; KRASULIN, I., inzh.

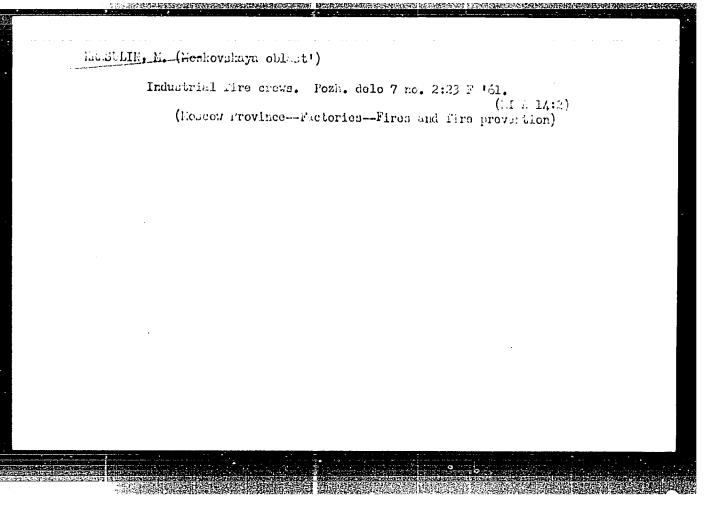
The PIVL universal measuring instrument. Radio no.1:45-46 Ja '65.

(MIRA 18:4)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200







KRASULIN, N.

Shortcomings in the milling system of the milling combine being built in Vologda, Muk. elev. prom. 23 no.12:19 D '57. (MIRA 11:2)

1. Olavnyy tekhnolog Yaroslvaskogo oblastnogo upravleniya khleboproduktov.

(Vologda--Flour mills--Equipment and supplies)

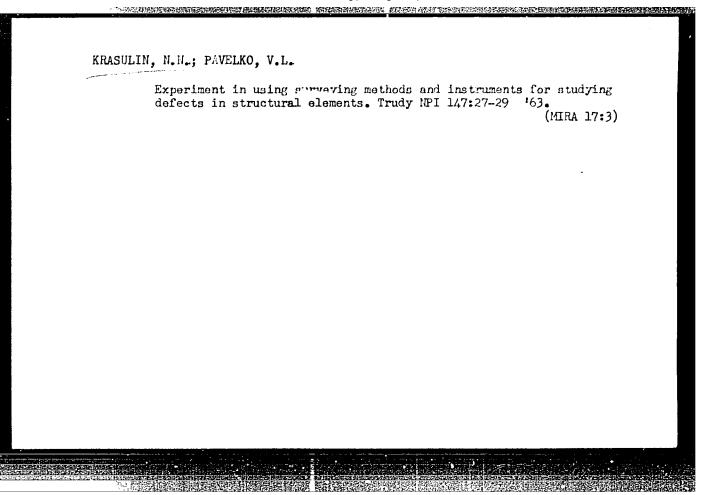
KISELEV, I. (Hinsk); KRASULIN, N. (Yaroslavl'); MEL'NIKOV, P. (Leningrad)

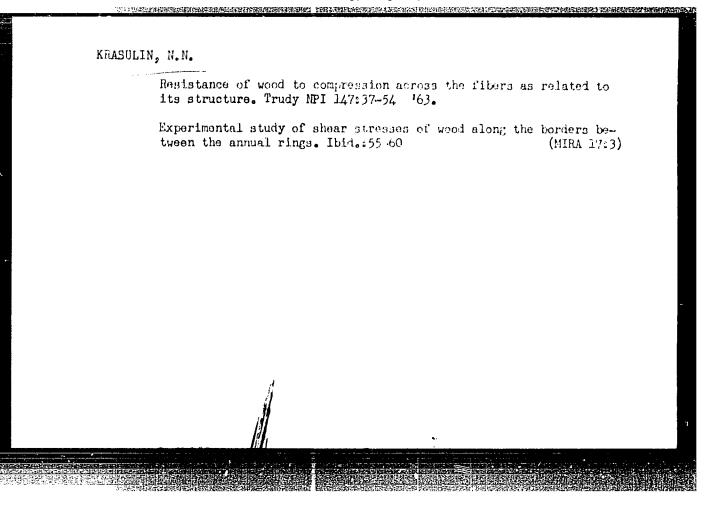
A useful measure. Muk-elev.prom. 25 no.1:31 Ja '59. (MIRA 12:3)

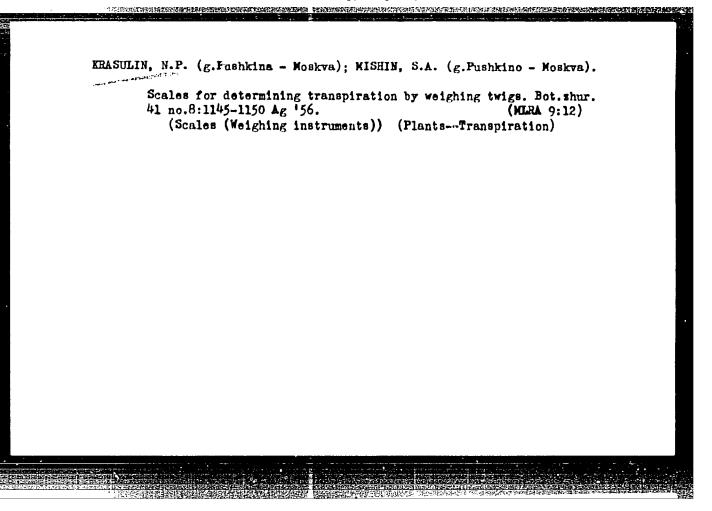
(Grain milling)

DUROV, I.S.; KRASULIN, N.N.; IONIN, S.N.

Experimental study of panels for apartment houses. Gruiy IPI 147: 11-16 '63. (MIRA 17:3)







κ.

KRASULIN, N.P.

USSR/Forestry - Forest Cultures.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 95838

Author : Krasulin, N.P.

Inst : All-Union Scientific-Research Institute of Forestry and

Mechanization of Forestry.

Title : Value of Organic and Mineral Fertilizers for Raising

Slow-Growing Seedlings of Forest Species.

Orig Pub : Byul. anuchno-tekhu. inform. Vses. n.-i. in-t lesovodstva

i mekhaniz. lesh. kh-va, 1957, Ho4, 38-41.

Abstract : Experiments on fertilization of seedlings were established

in the spring of 1932 at the Ivanteyevskiy Hursery of the ASRIFM (All-Union Scientific-Research Institute of Forestry and Mechanization of Forestry) on strongly podzolic, axdrage clayey unfertile soil with pH 4.3. Lowland turf,

applied in the spring from a calculation of 100 t/ha,

Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220

I.

USSR/Physiology of Plants - Water Regime.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67828

Author: Krasulin, N.P., Pankratova, N.M.

Inst : All-Union Sientific Research Institute of Forest Economy.

Title : Transpiration as an Index of Water Absorption by the Root

Systems of Tree Species.

Orig Pub : Dokl. AN SSBR, 1957, 113, No 4, 927-929

Abstract : During the summer of 1951 the transpiration intensity of

23-year old trees of an oak-ash plantation in Sal'skaya

Dacha (Rostovskaya Oblast') was determined using the weighing method of L.A. Ivanov. Transpiration dropped with the onset of the dry season; the process was more marked

in the ash than in the oak, and it was also more marked in the areas of more severe natural conditions. Rain caused

a sharp rise in transpiration in the ash, followed by a

Card 1/2

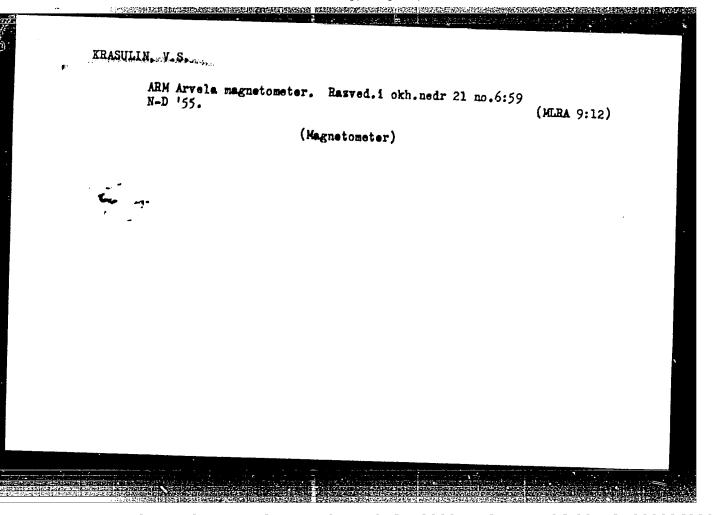
- 14 -

STATE OF THE ACTION OF THE PROPERTY OF THE PARTY OF THE P

KONOPLYANTSKV, A.A., redaktor; KRASULIH, V.S., redaktor; SHIROKOV, A.S., redaktor; KOLOSKOVA, M.I., Fedaktor izdatel stva; GUROVA, O.A., tekhnicheskiy redaktor

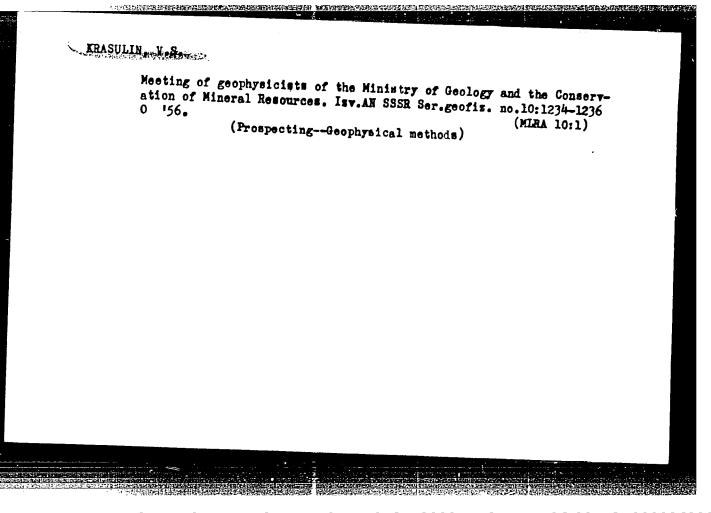
Experience in using geophysical methods of prospecting in hydrogeological, engineering and geological research] Opyt primeneniia geofizicheskikh metodov razvedki i gidrogeologicheskikh i inzhenernogeologicheskikh issledovaniyakh. Pod red. A.A.Konopliantseva. V.S. Krasulina i A.S.Shirokova. Moskva, Gos. nauchno-tekhn. izd-vo litry po geol. i okhrane nedr, 1955. 74 p. (MIRA 9:8)

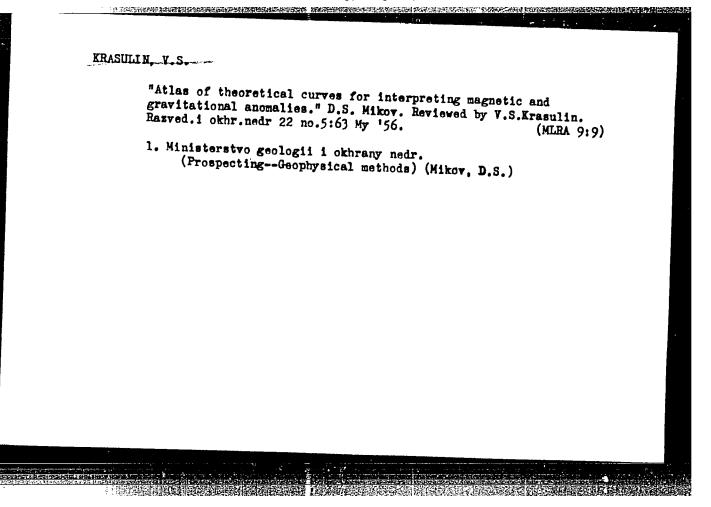
Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.
 Tekhnicheskiy sovet.
 (Prospecting--Geophysical methods)

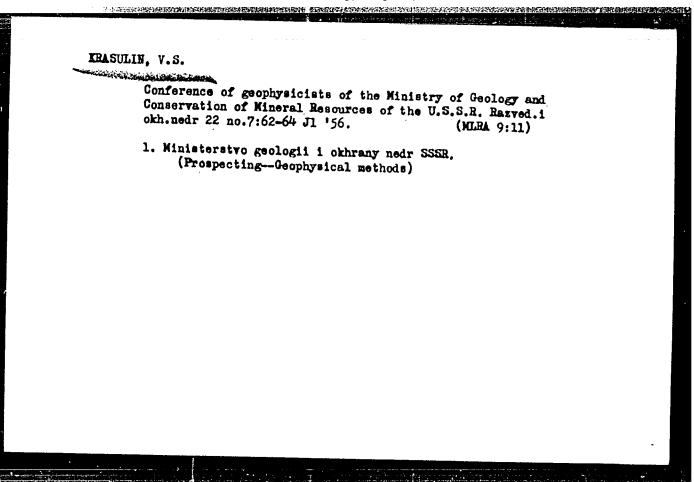


"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220







KRASULIN V.S.

New American geophysical instruments. Razved. i okh.nedr. 22 no.11:59-62 N '56. (MLRA 10:1)

1. Glavgeofizika Ministerstva geologii i okhrany nedr SSSR. (Geophysics) (Physical instruments)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

KAHSULIN, 6.5.

AUTHORS: Krasulin, V.S., and Fedyuk, V.I.

132-11-7/7

TITLE:

40 Years of Soviet Prospecting Geophysics

(Sorok let sovetskoy

razvedochnoy geofiziki)

PERIODICAL:

Razvedka i okhrana nedr, 1957, No 11, pp 50-62 (USSR)

ABSTRACT:

Geophysical prospecting methods were first applied by the Special Committee for the Study of the Kursk Magnetic Anomalies (Osobaya komissiya po izucheniyu Kurskikh magnitnykh anomaliy-OKKMA) during 1919-1927. During subsequent years the methods of induction, electric coring and magnetism were perfected for prospecting minerals, oil deposits and water resources. The method of aeromagnetic surveying aided in discovering deposits located in areas of poor accessibility. Perfection of the aeromagnetometer "AOM-49" by a group of specialists under the supervision of G.S. Smirnov enabled to establish the crystalline structure of areas covered by thick sediments, the contours of basic geologic formations, tectonic changes besides locating mineral, oil, and gas deposits. More than half of the territory of the USSR has been surveyed with this instrument at the present time. Gravimetric surveying started in 1932, was conducted by uniform methods and according to a uniform government plan. Up to 1939, foreign made gravimeters were

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132-11-7/7

used in the USSR. During subsequent years, the following gravimeters were constructed: "TKH-2", "TKHM-3", "TKM-5" "CH-3", "FKA", "FKOM" and "FAK-3M" . Parallel with gravimetric surveying on the surface, were conducted studies of gravity on the bottom of water reservoirs. Used were the gravimeters "ДГМ", "ДГА", the automatic altimeters "BA-48" and "ГВ-52", the bottom gravimeters "ДГПЕ" and adapted gravimeters "TAK-3M". This method aided essentially in surveying the Kursk Magnetic Anomaly, the Krivoy Rog iron ore rayon, the chromium deposits of the Ural, the Volga-Ural and Ural-Emba oil districts, the depressions of the Bashkir Ural region, south-eastern Caucasus, Azerbaydzhan, and the Dnepro-Donets basin, several districts of the Turkmen SSR, and other areas. In connection with the exploration of northern permafrost aeras, the ondometric device "NA-6" was constructed by A.A. Petrovskiy and V.V. Alekseyev. Operating on direct current, the potentiometer " $\Im\Pi$ -1" was manufactured in series since 1934. In 1935, seismometers were used for prospecting for oil deposits on a large scale. Construction of multi-channel seismic stations was started in 1947, and seismography became one of the most important methods of geophysical prospecting operations. At present, domestic industry manufactures 26-

Card 2/5

132-11-7/7

channel seismic stations "CC-26-51-A", 60-channel seismic stations "CC-60" and small seized instruments "CC-30/60-56" Soviet industry met the requirements of seismic expeditions by manufacturing seismographs of the types "CN-16" and "CN-16M". The radiometric method gained great importance in the USSR for geophysical purposes. The latest types ("ACFM-25", "ACFM-38" were issued in conjunction with the aeromagnetometer "AM-11" by which the geologic efficiency of each instrument was increased. Beginning in 1939, a group of specialists under the supervision of G.A. Gamburtsev applied the correlation method of refracted waves ("KMPB"), which method was further developed to the method of deflected waves, which remained the basic method for prospecting for oil deposits, and establishing the complex structures of the earth. With the aid of this method, the Buzovninskaya deposit on the Apsheron peninsula was discovered in 1940, and further important results were obtained on southern Emba, which lead to discoveries at Narmundanak, southern Koshkar, Tentyaksor and other deposits. Parallel with core sampling by electric means were developed other methods of examining drill holes, such as resistivometry, inclinometry, cavernometry, inclinometry. From the semi-automatic stations "TKC-2000" and "TKC-1200" were developed

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132-11-7/7

the automatic stations "A \Im KC-52" and "OKC-52" with electronic electronic potentiometers "NACK" or with photorecorders "P-4". In 1948, gas sampling by electric means was widely applied with the aid of the semi automatic station of the type " $\tilde{\Gamma} \tilde{K} C$ ", and lately with the automatic gas sampling station "AFKC-56" combined with the chromatic gas analyzer "FCT-2" Research is conducted at the present time to improve the method of core sampling by magnetic means (" M-10"). During the past years radioactive gamma core sampling has been developed, together with several new modifications, such as neutronic core sampling, gamma-gamma core sampling, by the activation and isotope methods. The Soviet industry has developed up-todate devices for radioactive core sampling (" A9KC-7-55") Of special importance are methods of complex geologic-geophysical research, developed by Soviet geophysicists, applicable for separate regions and industrial districts. Examples of complex prospecting are the Kursk Magnetic Anomaly and the Turgayskaya depression. An eastern geophysical expedition has successfully applied aeromagnetic, surface-magnetic and gravimetric methods at prospecting for diamonds in kimberlite layers in the Yakutsk ASSR. Switching to a 1:50,000 scale at aeromagnetic surveying in connection with limited surface

Card 4/5

132-11-7/7

magnetic surveying resulted in the discovery of numerous iron ore deposits. Rational application of electric prospecting for solving of hydro-geologic problems is of great importance. As to the future, Soviet scientists are facing the task to further develop the physico-mathematical basis of research as well as further develop the methods of interpreting the results of geophysical surveying. Soviet geophysicists and designers have constructed new types of geophysical devices, among which are automatic electronic compensators "3AK-2" electronic needle compensators "3CK-1" electronic computing compensators "KCP-2" and numerous other instruments for geophysical prospecting.

ASSOCIATION:

Ministry of Geology and Conservation of Natural Resources of the USSR (Ministerstvo geologii i okhrany nedr SSSR)

AVAILABLE:

Library of Congress

Card 5/5

AUTHOR:

Krasulin

132-58-4-17/17

TITLE:

Readers' Conference (Chitatel'skaya konferentsiya)

PERIODICAL: dazvedka i Okhrana Nedr, 1958, Nr 4, pp 63-64 (USSR)

A readers' conference, called by the Gosgeoltekhizdat, took place in Moscow on 28 February 1958, where both achievements and shortcomings of printing methods in the USSR were discussed.

ASSOCIATION: Goseoltekhizdet

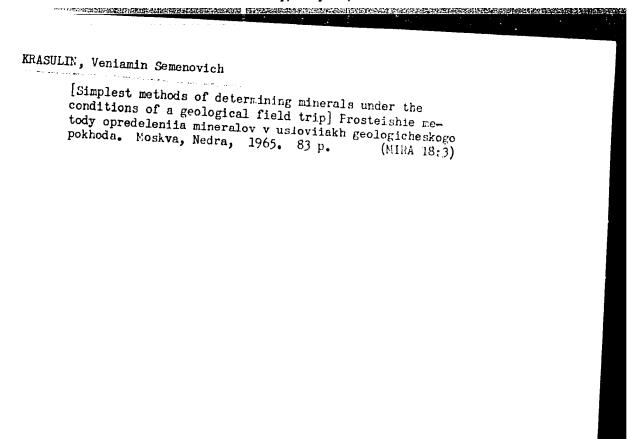
AVAILABLE

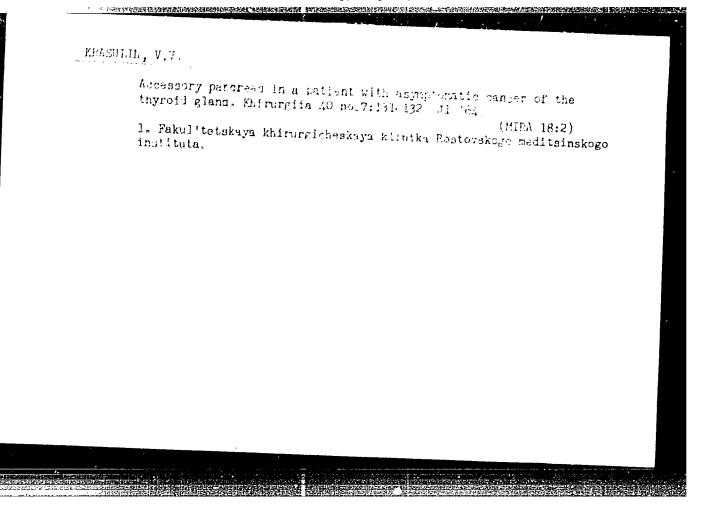
Library of Congress

Card 1/1

1. Printing-USSR

USCOMM-DC-54760





S/135/60/000/009/003/015 A006/A002

AUTHORS: Krasulin, Yu. L. and Sagalovich, V. V., Engineers

Welding With Consumable Electrodes of Thin Stainless Steel Sheets

TITLE: Welding with Consumable Electrons and Argon in a Mixture of Carbon Dioxide and Argon

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 9, pp. 10-11

TEXT: In gas-electric welding with consumable electrodes the shielding gas must ensure the lowest possible value of the critical current density, required for the jetlike or fine-dropped transition of the metal in the arc, providing for a stable arc discharge. Differing from single-atom inert gases, such as helium or argon, carbon dioxide dissociates in the high-temperature zone of the arc, forming carbon monoxide and oxygen. As a result exothermic reactions occur in the welding pool producing additional heat which has a positive effect on the formation of the seam. Satisfactory penetration and a smooth outline of the seams welded in carbon dioxide approach them to those welded in helium. The authors developed a method for gas-electric welding with consumable electrode on a standard machine and a wire of over 1.0 mm, using a mixture of carbon dioxide and argon (CO₂ = 70 ÷ 50%; Ar = 30 ÷ 50%). This mixture reduces the

Card 1/2

8/135/60/000/009/003/015

Welding With Consumable Electrodes of Thin Stainless Steel Sheets in a Mixture

critical density of the current, stabilizing the burning of the arc and ensuring the fine-dropped metal transition at a current density of about 60 amps/mm2 in welding on reversed polarity and of 40 amps/mm2 in welding on straight polarity. The formation of the bead built-up with a consumable electrode in an Ar-CO2 mixture is similar to that formed in carbon dioxide. Grade "1X18HOT" (1Kh18NOT) steel of 2.5 mm thickness welded with a "OX18H9" (OKh 18N9) wire of 1.2 mm in diameter, was subjected to mechanical tests, which showed high mechanical and anti-corrosion properties of the steel. The authors used an "AAC-1000-2" (ADS-1000-2) automatic machine with a nozzle designed by TSNIITMASh. An additional controllable resistance in the form of a 240-ohm slide rheostat was used for the accelerated electrode feed. The gas conduct system is illustrated in Figure 2. The carbon dioxide gas was dehydrated in a drying device designed by VNIIAVTOGEN, filled with roasted blue vitriol. A generator with rigid characteristics is recommended as a feed source. There are 2 figures and

Card 2/2

84634

1 2300 (2208, 230)

S/135/60/000/011/008/016 A006/A001

AUTHOR:

Krasulin, Yu.L., Engineer

TITLE

Welding of Metals by Iwo Indirect Arcs

FER LODICAL:

Svarochnoye proizvodětvo, 1960, No. 11, pp. 29-30

TEXT: The author suggests a method of metal welding with two indirect arcs using the advantages of both a direct and indirect arc. The heat source for heating and melting the base metal and the consumable electrode consists of two arcs, one of which is burning between two unconsumable tungsten electrodes, the other one between the consumable electrode and one of the tungsten electrodes. Fower for the former arc is supplied by a transformer with a h-f cscillator, for the latter by a d-s generator. Argsn, assuring stable arc discharge, is used as a shielding gas. The arc between the tungsten electrodes is excited with the aid of the oscillator or by snort-sircuiting on graphite, the electrode feed is switched on, and the second arc is excited. The thermal effect of two indirect arcs is greater than that of one direct arc. The electrode burn-off rate is twice as high as in welding with a consumable electrode. The metal transfer is easily regulated from drop to spray type. The consumable electrode vibrates

Card 1/2

84634

Welding of Metals by Two Indirect Arcs

S/135/60/000/011/008/016 A006/A001

with sonic frequency which improves the weld shape, the weld structure and the wetting action between the weld and the base metal. It also reduces the current density required for the spray-type transfer. The described heat sources make possible to weld appear on steel, and copper on titanium with a galvanic charge and nickel coating ($\delta = 30$ microns). The electrode whre may be supplied to the arm vertically or at a small angle to the weld work. The first mode is recommended for welding, the second one for hardfacing. There are 4 figures.

Card 2/2

L = 10303-63 EWP(k)/EWP(q)/EWT(m)/BDS--AFFTC/

ASD--Pf-1-JD/HH ACCESSION NR: AP3001114

\$/0125/63/000/007/0001/0007

AUTHOR: Krasulin, Yu. L.; Shorshorov, M. Kh.

TITLE: Wedge test for evaluating the effect of cooling rate on the polygonization of single-phase-structure welds

SOURCE: Avtomaticheskaya svarka, no. 7, 1963, 1-7

TOPIC TAGS: welding wedge test, EI868 alloy, polygonization of welds

ABSTRACT: A weld-testing wedge made from OKh18N9T austenitic steel was used to determine the critical rate of cooling at which the polygonization of EI868 (Kh25N6OB15) heat-resisting nickel alloy is suppressed. The alloy was welded on by an independent double-electrode arc, with a 1.6-mm welding wire. EI868 alloy is a single-phase solid solution strengthened by (about 16 per cent of) tungsten. Metallographic studies revealed that at the cooling rate of over 100 or I20C per sec. the polygonization boundaries in the welded-on metal disappear. Five microphotographs are presented. Additional alloying of 8 per cent Mo (Mo-wire added in the welding arc) resulted in reducing the cooling rate to 40C per sec. The critical rate of deformation, which determines the hot-crack resistance of the welded-on metal, was found to be 2.8 and 7.3 mm per min. for EI868 and EI868 plus Mo

Card 1/2

L 10303-63

ACCESSION NR: AP3001114

respectively. Orig. art. has: 5 figures, 4 formulas, and 1 table.

ASSOCIATION: Institut metallurgii im. A. A. Baykova (Institue of Metallurgy)

SUBMITTED: 10Jan63

DATE ACQD: 02Aug63

ENCL: 00

SUB CODE: 00

NO REF SOV: 010

OTHER: 000

9/1/15 Card 2/2

KRASULIN, Yu.L., inzh.; SHORSHOROV, M.Kh., kand. tekhn. nauk

Regulating heat and diffusion processes in the metal fusion zone during welding and hard facing. Svar. proizv. no.8:13-16 Ag '63. (MIRA 17:1)

1. Institut metallurgii imeni A.A. Baykova.

KRASULIN, Yu. L. (Engineer) (IMET)

Reported on control of thermal and diffusion processes in the zone of alloying during welding of metals. "Wedge-shaped welding test for appraisal of influence of speed of cooling on polygonization of seams with single-phase structure".

Report presented at the regular conference of the Moseow city administration NTO Mashprom, April 1963. (Reported in Avtomaticheskays Svarka, No. 8, August 1963, pp 93-95, M. M. Popekhin)

JPRS24,651 - 19 May 64

EFF(c)/EFF(n)-2/EPR/EPA(s)-2/EFA(w)-2/TMP(k)/EMA(c)/EMT(n)/EPA(bb)-2 EMF(b)/T/EMP(e)/EMP(v)/EMP(t) Pf-4/Fq-4/Pr-4/Ps-4/Pt-10/Pu-1/Pab-10 I. 34068-65 Pf-1/Fg-4/Pr-1/Ps-1/Pt-10/Pu-1/Pab-10 WH/WW/JD/HM/JG 5/0363/65/001/001/0029/0036 ACCESSION NR: AP5007604 AUTHOR: Rykalin, N. N.; Shorshorov, M. Kh.; Krasulin, Yu. L. TITLE: Physical and chemical problems of joining different materials SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 1, 1965, 29-36 TOPIC TAGS: welding, welding energy, welding theory, ceramic welding, glass welding, radiation welding ABSTRACT: In a general review of the literature, the authors examine the theoretical aspects of controlling the joining of differ at solids by welding through a proper selection of temperature, time of phase contact, value of local plasticelastic deformation, and the time of radiation. The process of joining two different materials is divided into 2 principal stages. In case of joining different materials, one of which is in the molten state the relaxation period of the interphase energy, during which the diffusion is retarded, must be considered. Particular attention is paid to the welding of metals with glass or ceramics (e.g., Al with silica) and the welding of solid Ti with Hquid Al. The authors conclude that these processes require a regulatable energy source to control the type of bond Card 1/2

WINDOWS TO THE PROPERTY OF THE

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ACCESSION NR: AP5007604

produced, but that more research is needed on the nature of the energy characteristics of the joining process and the development of processes using thermal mechanical and radiation activation. Orig. art. hac: 3 figures and 2 formulas.

ASSOCIATION: Institut metallurgii im. A.A. Baykova (Metallurgical institute)

SUBMITTED: 16Sep64

ENCL: 00

SUB CODE: IE MM

NO REF SOV: 010

OTHER: 003

RYKALIN, N.N.; KRASULIN, Yu.L.

Estimation of the energy parameters of welding metals by laser light beams. Dokl. AN SSSR 163 no.1:87-90 Jl '65. (MIRA 18:7)

1. Institut metallurgii im. A.A.Baykova. 2. Chlen-korrespondent AN SSSR (for Rykalin).

L 4022-66 EWT(d)/EWT(1)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWA(h)/EWA(c)
ACCESSION NR: AP5022258 LJP(c) UR/0363/65/001/007/1090/1097
JD/HM/EM/AT 537.311.33+546.3

AUTHOR: Krasulin, Yu. L.; Ivanov, V. D.; Kruglov, L. M.

TITLE: Role of dislocations in the formation of joints during pressure welding with heating of the metal and semiconductor

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1090-1097

TOPIC TAGS: pressure welding, crystal dislocation, semiconductor device

ABSTRACT: Metal conductors were welded to silicon single crystals onto which a pyrex plunger was pressed to simulate pressure welding. It is found that during pressure welding involving the heating of the metal conductors with the semiconductor, dislocations are formed on the surface of the semiconductor in the area of its contact with the metal. Chemical bonds between the metal and the semiconductor are formed at points where the dislocations emerge to the surface of the semiconductor. The number of dislocations formed in the surface layer of the semiconductor depends on the welding parameters: temperature, pressure, and duration, At low temperatures and short durations lasting less than the incubation period, the weld joint between metal conductors and semiconductors is lard 1/2

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	formed owing to adhes art. has: 6 figures.	ive forces (van	der Waals a	nd mechanical	bonding) Ori	g.
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EWA(k)/FBD/EWT(1)/EPA(s)-2/EWT(m)/EEC(k)-2/EWP(v)/T/EWP(t)/EWP(k)/EWP(k)/EWP(t)/EWP(EWP(b)/EMA(m)-2/EWA(h)/EMA(c) SCTB/IJP(c) WG/JD/HM ACCESSION NR: AP5018079 UR/0020/65/163/001/0087/009 AUTHOR: Rykalin, N. (Corresponding member AN SSSR); Krasulin, TITLE: Estimate of the energy parameters of metal welding by a laser SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 87-90 25,14 TOPIC TAGS: metal welding, copper, laser beam, laser application ABSTRACT: The authors first point out that all experimental evidence indicates that successful welding by means of a laser beam calls for exact knowledge of the distribution of the beam energy over the surface of the welded materiai. To this end, they estimate the total maximum beam power as well as the power in each spike. The problem is solved for the case of interaction between the light beam and the surface of a semi-infinite thermally conducting body, assuming a Gaussian distribution of the heat developed on the metal surface along the radius of the focused spot. Approximate formulas are derived for the heat and temperature distribution produced by a normally-incident circular laser-beam spot and for the maximum perunit heat flux. The latter makes it possible to estimate the dimensions of the spot of molten metal on the surface of the welded body and the depth of the weld. The approximate light-beam parameters required for welding thick copper sheets and the dimensions of the welding zone are calculated by way of an example. Methods Card 1/2

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ACCESSION N	R: AP5018079	•					2
of estimating the laser beam power required to produce a weld of given dimens are also indicated. It is stated in the conclusion that more accurate calcul call for the knowledge of the spatial and time distribution of the radiation end of the laser rod, and on the distribution of the energy in the focused sporing. art. has: 2 figures, 7 formulas, and 2 tables. ASSOCIATION: Institut metallurgii im. A. A. Baykova (Metallurgy Institute)						iculations ion on the d spot.	
SUBMITTED:	25Feb65			00 VI 103/401	SUB COI		e) 1/ IE
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ACC NR: AP6010145	NP(k)/ENT(1)/ENT(m)/T/ENP(v)/ENP(t) JD/H SOURCE CODE: UR/0125/66/00	
AUTHOR: Krasulin, Yu.	L. (Moscow); Nikitin, V. G. (Moscow); Kus	'min, V. I. (Moscow)
ORG: none		49
TITLE: Welding of inte	$v^{ u}$ grated circuits with indirect pulse heati	ng B
SOURCE: Avtomaticheska	aya svarka, no. 3, 1966, 64-66	
ABSTRACT: A method for suggested. In this met temperature indirectly pulse is passed. This the punch and element trequired to achieve a p	r pressure welding the microelements of inched the microelements to be welded are her by the punch (see Fig. 1) through which a power pulse brings the temperature in the to be welded to 400—560C, at which only a power by the punch (see Fig. 1) through which a power pulse brings the temperature in the to be welded to 400—560C, at which only a perfect bond. The method was successfully told microwires 0.03—01 mm in diameter to	tegrated circuits is ated to the required short a-c or d-c contact point between small pressure is used for bonding
	. <i>1</i> %	
Card 1/2	UDC: 621.791.89	
Card 1/2	UDC: 621.791.89	

ACC NR: AP6021487	SOURCE CODE: UR/0413/66/000/011/0	
NVENTOR: Krasulin	Yu. L.; Kuz'min, V. I.; Nikitin, V. G.	38 E
RG: none	16	10)
TITLE: Method of pleat input. Class	ressure welding microscopic parts with inc 49. No. 182490	lirect
BOURCE: Izobreteni no. 11, 1966, 129	Ye, promyshlennyye obraztsy, tovarnyye za	iki.
TOPIC TAGS: weldin	g, micropart welding, pressure welding	
welding microparts	hor Certificate introduces a method of provided indirect heat input supplied by an ex	lectrically
aaterials, to facility to increase the eff	reserve the initial properties of one of Atate the welding of lov-ductility materialiciency of the process, the punch is heated $9 imes c$	ils, and
SUB CODE: 13/ SUE	M DATE: 30Jan64/ ATD PRESS:5035	
ard 1/1 PD	UDC: 621.791.66	

AUTHOR: Krasulin, Yu. L.; Kul	
A 15 TO STATE OF THE STATE OF THE PART OF	lagin, I. D. 44
ORG: Institute of Metallurgy	im. Baykov (Institut Metallurgii)
TITLE: Controlling the temper	rature of the melting pool in plasma-arc metal
SOURCE: Avtomaticheskaya svar	rka, no. 9, 1966, 11-15
TOPIC TAGS: prime are welding	ng, plasma arc, metal deposition
by employing a current carryin system is the indirect double nozzle 2, and the other is bet The arc between the tungsten e	the melting pool in plasma are welding can be controlled ag filler wire (see Fig. 1). The source of heat in this are. One are is between tungsten electrode 1 and tween the electrode and current-carrying filler wire 6. electrode and the filler wire produces a plasma jet a filler wire metal. The intensity of this jet can be
Card 1/2	UDC: 621.791.92:536.5

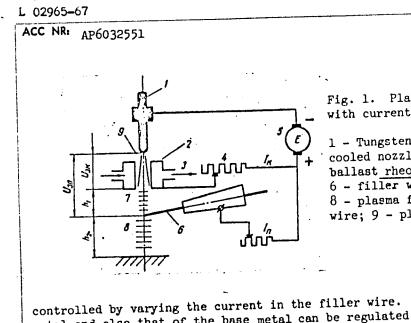


Fig. 1. Plasma-arc metal deposition with current-carrying filler wire

1 - Tungsten electrode; 2 - watercooled nozzle; 3 - water; 4 - RB-300 /
ballast rheostat; 5 - PS-500 generator; 0
6 - filler wire; 07 - plasma stream;
8 - plasma flare with molten filler
wire; 9 - plasma-forming gas.

controlled by varying the current in the filler wire. Thus, the temperature of molten metal and also that of the base metal can be regulated in a very wide range. Orig. art. has: 7 figures and 1 table.

SUB CODE: 11, 13/ SUBM DATE: OlDec65/ ORIG REF: 009/ OTH REF: 001/

ATD PRESS: 5099

Card 2/2 JC

ACC NR: AP7001931 SOURCE CODE: UR/0125/66/000/012/0060/0061

AUTHOR: Krasulin, Yu. L., Kozhevnikov, A. P., Kuz'min, V. I. (Mouse)

ORG: none

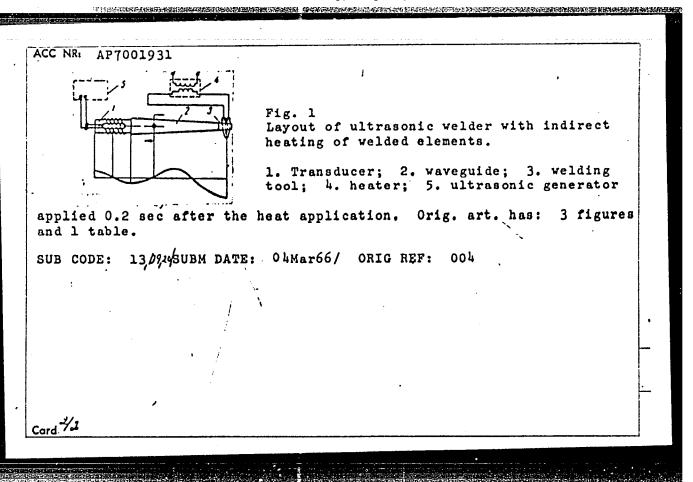
TITLE: Ultrasonic welding of microcircuits with indirect heating of elements

SOURCE: Avtomaticheskaya svarka, no. 12, 1966, 60-61

TOPIC TAGS: microcircuit welding, ultrasonic welding, nino electronic circuit

ABSTRACT: A method has been developed for welding elements of microcircuits made of dissimilar materials, for instance gold or aluminum welded to silicon or thin films deposited on a semiconductor or ceramic substrate. The method combines ultrasonic welding with simultaneous indirect preheating of the welded parts done by passing a current pulse through a section of the welding tool (See Fig. 1) Experiments showed that the timing of the application of ultrasound depends on the wire material. The best results in welding aluminum wire 0.1 mm in diameter to gallium arsenide and silicon, or gold, tantalum or aluminum films were achieved with ultrasound applied 0.3-0.4 sec prior to heat application. In the case of copper wire and gold film, ultrasound must be

Card 1/2



ACC NR.AP7005676 (N) SOURCE CODE: UR/0413/67/000/002/0148/0148 INVENTOR: Krafulin, Yu. L.; Kozhevnikov, A. P.; Kuz'min, V. I.
ORG: none
TITLE: A method of ultrasonic welding with heating of the parts being welded. Class 49, 190763
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2,
TOPIC TAGS: ultrasonic welding, miniature part welding fechnology
ABSTRACT: This Author Certificate introduces a method of ultrasonic welding with heating of the parts being welded. To improve the quality of the joints in welding miniature parts, the parts are heated indirectly through heat transfer from the electrically heated welding tool. [MS]
SUB CODE: 13/ SUBM DATE: 05 Jul 4/ ATD PRESS: 5117
Card 1/1 UDC: 621.791.16

BYSTROV, A. V.; SHALIMOV, A. P.; KRASULINA, A. K.

Use of slag crusts of AN-20 and AN-348A fluxes. Avtom. svar. 16 no.3:93 Mr ¹63. (MIRA 16:4)

(Electric welding) (Slag)

KKASULINA, D. IT

USSR/Cultivated Plants - Subtrapical and Tropical. M-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11093

Author : Zhilina, T.S., Krasulina, D.F.

Inst:

Title

: The Sweet Buy in Kuban'

Orig Pub : Sad i ogorod, 1957, No 8, 71-72

Abstract : A sweet bay bed has been planted on the Kuban' operatio.

nal base of the Sochi Experimental Station of Subtropi-

cal Crops (Maykop).

Card 1/1

1

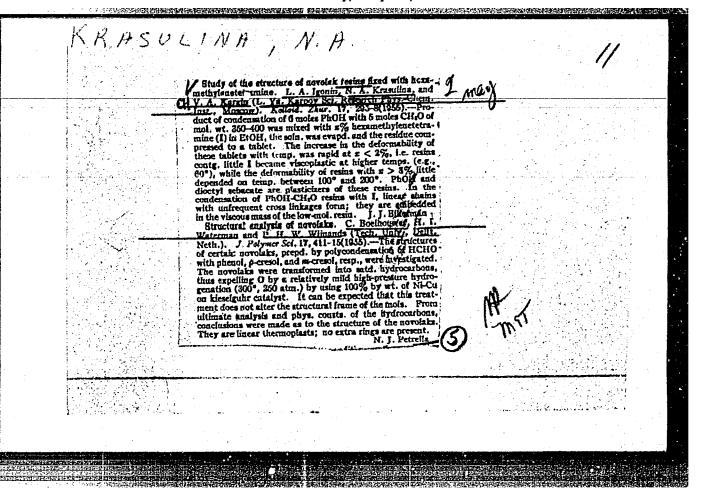
BYSTROV, A.V.; KRASULINA, A.K.

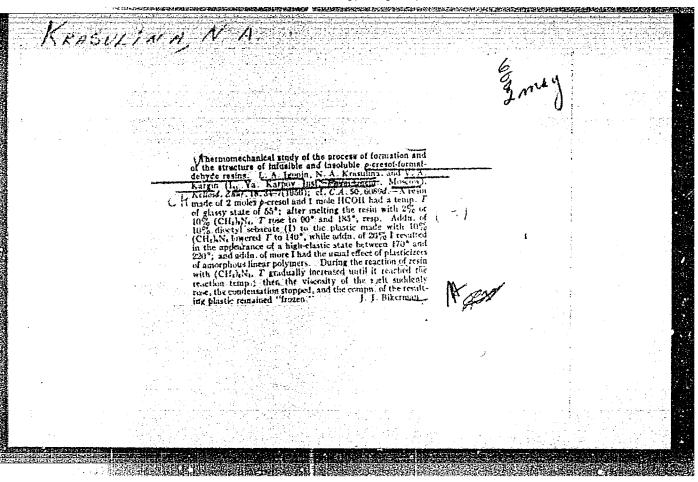
Automatic hard facing of suction-type coal dredge parts. Avtom. svar. 18 no.10:60-62 0 165. (MTR: 18:12)

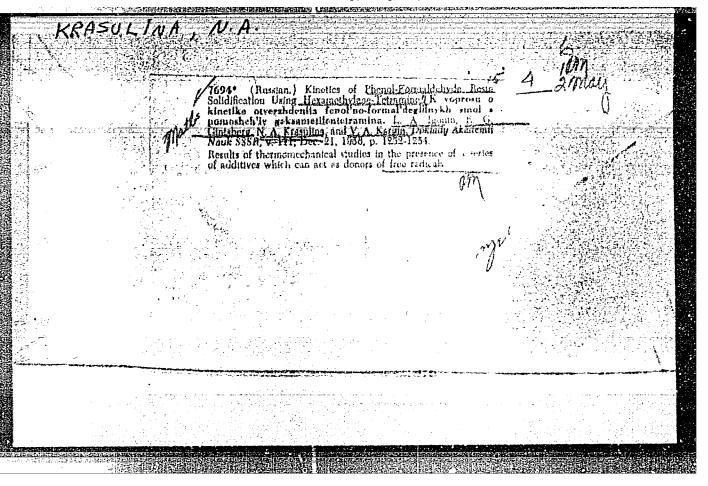
1. Kuznetskiy metallurgicheskiy kombinat.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220







86291 \$/190/60/002/008/002/017 B004/B054

15.8106

AUTHORS:

Igonin, L. A., Yeliseyev, Yu. A., Dyurgerov, O. A.,

Krasulina, N. A.

TITLE:

Formation of Stable Free Radicals in the Process of Harden-

TO RESIDENT TO THE RESIDENCE AND THE PERSONAL OF THE PERSONAL TO THE PERSONAL OF THE PERSONAL

ing and Thermal Destruction of Phenol Formaldehyde Resins

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 8,

pp. 1167-1170

TEXT: The object of the present paper is the proof that in the hardening process of phenol formaldehyde resins not only dense-network polymers are formed but also thermal destruction processes are taking place. The shear stress of some resins as a function of time at rising temperature was determined by an I. F. Kanavets plastometer (Ref. 2). Samples used were: Novolac resin of the type K-18 (K-18) with 4% by weight of hexamethylene tetramine and 30% of dibutyl phthalate; poly-oxybenzylamine from p-cresol, and the same compound made of tricresol. Fig. 2 shows the shear stress as a function of temperature. At 150-170 C, poly-oxybenzylamine behaved like amorphous linear polymers with poorly marked network. At higher temperature

Card 1/3

86291

\$/190/60/002/008/002/017 Formation of Stable Free Radicals in the Process of Hardening and Thermal Destruction B004/B054 of Phenol Formaldehyde Resins

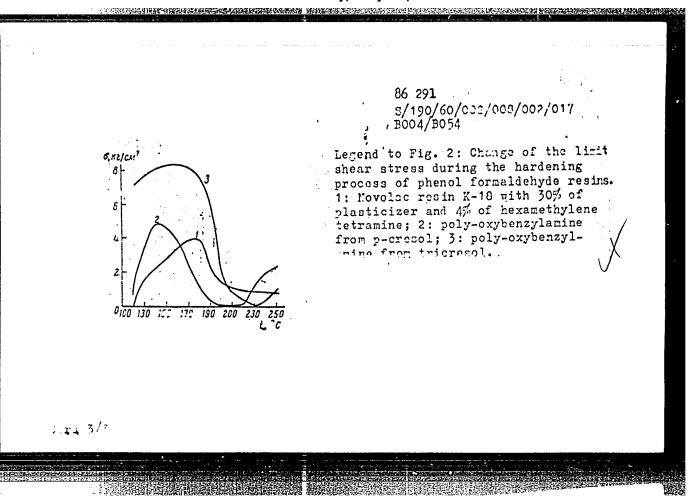
the network was destroyed; above 200°C, however, a dense network was formed which is revealed by an increase in shear stress. This is explained by recombination of macroradicals which had formed during thermal destruction. This assumption was checked by electron paramagnetic resonance (epr) spectra. The epr spectra were taken by a spectrometer designed by the Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics of the AS USSR). A concentration of 1014 paramagnetic particles/cm3 was found for Novolac, and of 5.1015 for poly-oxybenzylamines. The epr spectra remained unchanged after storing the samples for months. Origin and structure of these very stable free radicals require further investigation. The authors thank V. V. Voyevodskiy for taking the epr spectra in his laboratory, and V. A. Kargin for a discussion. There are 3 figures and 4 references: 3 Soviet and 1 British.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass

(Scientific Research Institute of Plastics)

March 15, 1960 SUBMITTED:

Card 2/3



AUTHORS:

Igonin, L. A., Gintsberg, E. G., S/076/60/034/02/006/044

Krasulina, N. A., Bass, S. I.,

Krasulina, N. A., Bass, S.

On the basis of publication data it may be assumed value formal as intermediates in the hardening of Novolack phenol formal dehyde resins with hexamethylenetetramine. In oxybenzylamines, the phenol nuclei are connected by dimethylamine—or triamines, the phenol nuclei are connected by dimethylamine—or triamethylamine bridges. At high temperatures, these bridges are transmethylamine bridges. At high temperatures, in the present case, formed into methylene—or azomethine bridges. In the present case, series of oxybenzylamines, obtained from phenol and its mono-a series of oxybenzylamines, obtained from phenol and its mono-a series of oxybenzylamines, obtained from phenol and its mono-a series of oxybenzylamines, obtained from phenol and its mono-a series of oxybenzylamines, the absorption spectra were taken by the new by spectral analysis. The absorption spectra were taken by the as by spectral analysis. The absorption spectra were taken by the next spectra analysis are given for 2,2'-dioxy-3,5,3',5'-tetra-IKS-11 spectrograph, and are given for 2,2'-dioxy-3,5',5'-tetra-IKS-11 spectrograph, and are given for 2,2'-dioxy-3,5',5'-tetra-IKS-11 spectrograph, and are given for 2,2

card 1/3

68847

Investigation of Oxybenzylamines Obtained From Phenol and Its Mononuclear Derivatives

S/076/60/034/02/006/044 B010/B015

assumption is confirmed by the absorption spectra (Fig 2) of the multinuclear oxybenzylamines. The latter were prepared by a method described earlier (Table 1, preparation conditions). All spectra of the oxybenzylamines obtained from phenol and its para-substituted derivatives show the 11.84 µ band whereas with oxybenzylamine obtained from o-chlorophenol this band lies at 11.92 µ. Thus, it can be seen that it is the reaction between hexamethylenetetramine and the mononuclear phenols in a diphenyl solution that leads to the formation of the polymeric oxybenzylamines (Table 2, suggested structural formulas of polymers). The polyoxybenzylamines obtained from phenol and its para-substituted derivatives are amorphous linear polymers reticulated by individual cross bindings. The polymers have very strong chains whose Tg value lies above their thermal stability. The o-substituted derivatives form strongly ramified and reticulated polymers. The polyoxybenzylamines obtained from phenol reticulate under the effect of heat, and pass over into a nonmeltable and insoluble state whereas polybenzylamines obtained from o- and p-substituted derivatives of phenol are thermally instable, and decompose at a temperature above 160°C forming low-molecular products. There are 6 figures, 2 tables, and 6 references, 1 of

Card 2/3

Investigation of Oxybenzylamines Obtained From Phenol and Its Mononuclear Derivatives

68847 S/076/60/034/02/006/044 B010/B015

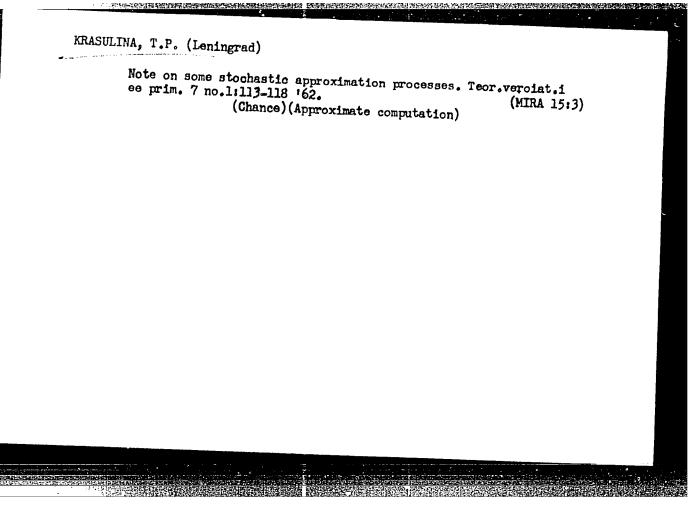
which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

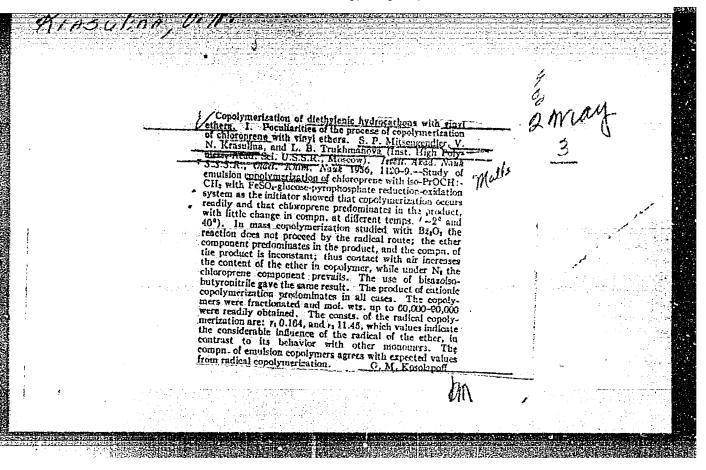
SUBMITTED:

April 3, 1958

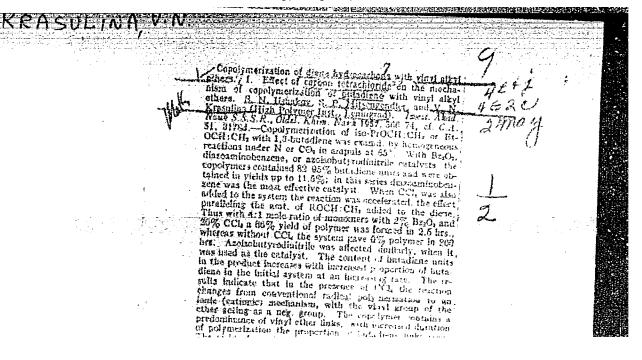
Card 3/3

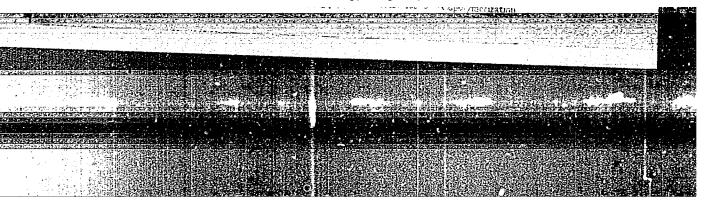


Trai	nsactions of the Sixth Conference (Cont.) SOV/6371	
71.	Gladkov, B. V. Some Problems in the Tabulation of the Beta- Distribution 385	
72.		
73.		
74.	Chentsov, N. N. On the Asymptotic Effectiveness of an Estimate of Maximum Likelihood (comment on A. M. Kagan's report "Some Properties of the Estimates of Maximum Likelihood")	
75.		1
76.	Maniya, G. M. Quadratic Estimation of the Discrepancy of the Densities of a Normal Two-Dimensional Distribution From Sampling Data	
the Sy Sop	407 July of the 6th Conf. on Probability Theory and Mathematical Statistics and Theory of the 6th Conf. on Probability Theory and Mathematical Statistics and Theory of Mathematical Statistics and Mathematical Statistics a	



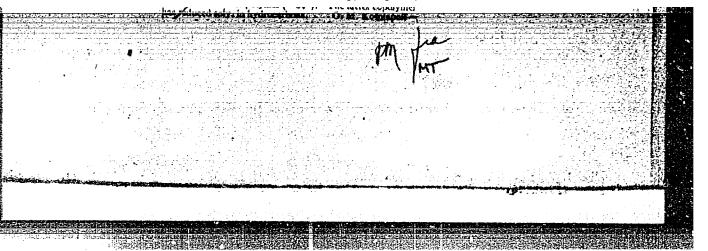
"Polymerization of Mathylacrylate with Intyl-Lithium," a paper presented at the oth Congress on the Chemistry and Physics of Migh Folymers, 2" Jan-2 Feb B-3,0%,389





US HAKOV, S.N.; MITTSENGENDLER, S.P.; KRASULINA, V.N.

of Clistific Circhicits, with iso-Procession of Lindocty Cristin emulsion at 65° with oxidation-reduction initiator of FeSOs, NasPoo, and gluence was examed, with and without CCls in the system. The action of CCls is unpersued under these conditions and the reaction proceeds by radical route. The copolities formed has low med, wt. (about 3000) owing to introduction of the other links.



A Allena Chert, Free

USHAKOV, S.N.; MITSENGENDLER, S.P.; KRASULINA, V.N.

Copolymerization of diethylene hydrocarbons with vinylalkyl ethers.

Report No.2: Copolymerization of divinyl with vinylalkyl ethers
in emulsion at low temperatures. Izv.AN SSSR Otd.khim.nauk no.4:490-493
Ap 157.

(MIRA 10:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Polymerization) (Ethers)

KOROTKOV, A.A.; MITSENGENDLER, S.P.; KRASULINA, V.N.; VOLKOVA, L.A.

Synthesis of polymethyl methacrylate of regular structure. Vysokom. soed. 1 no.9:1319-1326 S 159. (MIRA 13:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Methacrylic acid)

FRASE I BOOK EXPLOITMENT ON SOV 0-365 Takenutional symposium on macromolecular charletty. Moscov. 1360.	ins pomakrancienijumoj knimi, 233, kohra, 14-18 tyung stordenay. Sattatya II. (Indematicaal Sepanam on mistry leid in Nascov, Juna 14-13; Papers and Summaries) ov, Itd-vo Al SSI, 1960; 559 v. 5,500 copies printed.	errational Union of Pure and Applied Chemistry, Com- lar Chemistry	Their Min: T.A. Pressions. Full California book is intended for comists interested is polynerization resortions and the synthesis of high-solveniar compounds.	COURAGE: This is Section II of a militolism work containing payers on secre- malcolar chamistry, the paper in this volume trest mainly the kinetics of written pulymentation results intitated by different catalyshe or indired by relation, keen it measure becoming discussed are electron parameters we common spectroscopy and influencemental discussed are electron parameters rise is Reliable, France and Enseign. No personalities are mentioned, References follow such meticies. Reference for the second of	Talls 1. 1. Erries and M. Arrif (Empary). Hinestics of the Inhibition of Polimeriasion of Supress by Hiro Compounds Resurvay. 1.14. [2-12]. Resurvay. 1.14. [2-12].	This clark Reads Compounds In the Troops of Mailet Principal (USES). Internate Excepts Reactions Latte Proposes of Mailet Principal (USES). Internate Excepts Reactions Latte D. E. Hind, O. Erret, and V. H. H. (Sungary). Hearts Study Extra D. T. (Principal of Virgi Nature in the Pressure of Study Extra D. H. (Principal of Virgi Nature in the Pressure of Study Following Mailet Study Study (Poland). A Nethod of Nessuring the Polymerisation Rate of a Light Degree of Conversion.		Extinct, A., and H. Etcolog (Concessionties). The Polymertuning late for a lingle Preticie During Excellence Polymertuning of Extinct P., and In. Language (Concessionties). Builting Polymertuning 119 (Extinct Extinct Price). Paulsing Polymert. 119 (Extinct Extinct Price). The Concession Induction Induction Systems.	Before, Lo. and A. Soffied (Coordination). The East of Secretarias and Colored States of States	206 Partial May be feeling. It lead to the feel (Clean colorate). Chain bertaintin bertain the Asionic Polymerisation of Octamenty hydroternationses. The Formattion of Stable Complesses at Active Centern Centern 232 Markella, J. Meltilly, on The (Centern Centern Physician of the Polymerisation of Formattantal Stable Complesses of the Complesses of the Polymerisation of Formattantal Centern State Complesses of the Complesses of the Polymerisation of Polyme	E (19	
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MERKULOV, V.A., kand.tekhn.nauk; KRASUNTSEV, Ye.M., inzh.; ARAKEL'YANTS, A.K., inzh.

Effect of the ventilation system on the temperature conditions in the working face of blind workings. Trudy Sem.po gor. teplotekh. no.4:106-112 *62. (MIRA 15:8)

1. Shakhtinskiy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

(Mine ventilation)

KRASUNTSEV, Ye., inzh. (g.Shakhty)

Transistorized electric thermometers. Radio no.4:47-48 Ap '65.
(MIRA 18:5)

MERKULOV, V.A., kand.tekhn.nauk; ARAKEL'YANTS, A.K., inzh.; KRASUNTSEV, Ye.M., inzh.

Improving the climatic conditions in stopes of Artem Mine No.2.

Trudy Sem.po gor.teplotekh. no.4:136-140 '62. (MIRA 15:8)

1. Shakhtinskiy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

(Donets Basin-Mine ventilation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

KRASUSKA, Wanda

Causes of deaths in Warsaw from 1882 to 1962. Zdrow. publiczne no.4/5:139-146 Ap-My '65.

1. Z Zakladu Higieny Ogolnej AM w Warszawie (Kierownik: prof. dr. M. Kacprzak).

AUTHORS:

Knunyants, I. L., Mysov, Ye. I.,

SOV/62-58-7-24/26

Krasuskaya, M. P.

TITLE:

The Catalytic Hydration of the p-Olefines (Kataliticheskoye

gidrirovaniye \psi-olefinov)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 7, pp 906 - 907 (USSR)

ABSTRACT:

The investigation of the catalytic hydration of the $\phi\text{-olefines}$ besides its practical importance is also interesting because it is directly connected with important problems concerning the theory of heterogeneous catalysis. The rate of hydration depends on the state of the $\pi\text{-bond}$ of the olefines. It increases with the decrease of the electron density of the bond, if the removal

of the electrons from the catalyst lattice by the olefine

molecule is the primary phenomenon in this process. The authors of the present paper showed that φ -ethylene, φ -propylene, φ -isobutylene, and other φ -clefines may be easily hydrated with molecular hydrogen on a palladium and nickel catalyst. The enclosed table gives the formulae of the initial olefine, the name of the catalyst, the hydration temperatures, the hydration

Card 1/2

SOV/62-58-7-24/26

The Catalytic Hydration of the \phi-Olefines

products etc. Based on the observations made it may be assumed with great probability that the property of easy hydration of the olefine series increases from m-ethylene to q-isobutylene.

There are 1 table and ? non-Sowiet references.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk 3SSR

(Institute of Elemental-organicCompounds, AS USSR)

May 12, 1958 SUBMITTED:

Card 2/2

82692

s/062/60/000/008/006/012 B004/B054

5.3600

Knunyants, I. L., Krasuskaya, M. P., and Mysov, Ye. I.

AUTHORS:

Reactions of Fluoro Olefins. 13 Catalytic Hydrogenation

TITLE:

of Perfluoro Olefins 7

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1960, No. 8, pp 1412-1418

TEXT: In previous papers (Refs 3, 4) the authors had been dealing with the hydrogenation of fluoro olefins, which easily proceeds on a palladiumor nickel catalyst. In the present paper they report on the hydrogenation of tetrafluoro and trifluoro ethylene as well as on the fact that the products of hydrogenation of some hydrocarbon fluorides easily split off hydrogen fluoride under the action of alkali; here, fluoro olefins are formed which cannot, or can only with great difficulty, be produced by means of the usual methods of halogenation. In this connection, the author: give the following reaction chains: Perfluoro isobutylene is hydrogenated to 1,1,3,3,3-pentafluoro-2-trifluoromethyl propane (I), which in aquecus alkali solution easily yields HF, and forms 1; 3,3,3-tetrafluoro-2-trifluoromethylpropene-1 (II) the structure of which was established by oxidation card 1/3

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Reactions of Fluoro Olefins. 13. Catalytic Hydrogenation of Perfluoro Olefins

\$/062/60/000/008/006/012 B004/B054

to hexafluoro acetone. Hydrogenation of (II) yielded 1,3,3,3-tetrafluoro-2-trifluoromethyl propane (III). Hexafluoro isobutylene (IV) resulted therefrom by giving off HF. Hydrogenation of (IV) produced 3,3,3-trifluoro-2-trifluoromethyl propane (V), and from the latter 1,1,3,3,3-pentafluoro-2-methylpropene-1 (VI) was obtained by passing it through 90% molten KOH at 170°C. The authors performed a similar successive series of reactions with perfluoro propylene:

CF₃-CF₂-CF₂ H₂
Pd CF₃-CFH-CF₂H -HF CF₃-CF₂-CF₂-CFH-CFH H₂
Pd CF₃-CFH-CFH -HF CF₃-CF
(VIII) (X)

=CH₂. Compound VIII is isomeric with the known 1,1,3,3,3-pentafluoropropens1 (IX) but shows a different spectrum of nuclear magnetic resonance. Besides, the hydrogenation and HF-release of IX yields products with other boiling points:

CF₃-CH=CF₂ H₂ CF₃-CH₂-CF₂H -HF KOH CF₃-CH=CFH . 2,3,3,3-tetrafluoro propane

(IX) (XI) (XIII)

boiling at -1°C was obtained as a by-product of hydrogenation of VIII. The

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000

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CIA-RDP86-00513R000826220

Reactions of Fluoro Olefins. 13. Catalytic Hydrogenation of Perfluoro Olefins

82692 \$/062/60/000/008/006/012 B004/B054

hydrogenation of perfluoro butadiene yielded 1,1,2,3,4,4-hexafluoro butane which, with one mole of HF in 2,3-position splitting off, was transformed to CF2-CF-CH-CF2H. A table shows the boiling points of the compounds obtained. In the experimental part of the paper, the authors indicate the production of the Pd- and Ni catalyst, and the reactions performed, as well as the physical data and analyses of the compounds obtained. There are 1 table and 16 references: 3 Soviet, 5 US, 6 British, 1 Canadian, and

ASSOCIATION:

Institut elementoorganicheskikh goyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the

Academy of Sciences, USSR)

SUBMITTED:

March 3, 1959

Card 3/3

43309

5/062/62/000/012/004/007 B117/B101

5.3660

AUTHORS:

Knunyants, I. L., Krasuskaya, M. P., Mysov, Ye. I., and

mukhtarov, I. A.

TITLE:

Reactions of flucro olefins. Communication 15. Catalytic

hydrogenation of perfluoro cyclobutene

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 12, 1962, 2141-2145

TEXT: A Pd catalyst was used for the hydrogenation of perfluoro cyclobutene at room temperature. A mixture containing two isomers of 1,2-dihydroperfluoro cyclobutane was found to form: one (approximately 90%) with a boiling point of 63°C (d²⁰ 1.5780; n²⁰ 1.2985) and the other (less 15D 15

than 10%) with a boiling point of 27° C (d₄^{15D} 1.5580; n_D¹⁵ 1.2970).

spectroscopic studies were made to determine the configuration of the isomers separated by distillation. An analysis of the rotational bands in microwave absorption spectra showed the isomer with the higher boiling point to have a cis-configuration and that with the lower boiling point to have a trans-configuration. Dehydrofluorination converted both isomers into Card 1/2

Reactions of fluoro olefins ...

s/062/62/000/012/004/007 B117/B101

1-hydroperfluoro cyclobutene, b.p. 26°C. Oxidation of the latter yielded tetrafluoro succinic acid m.p. $115-120^{\circ}$ C. 1,1,2-trihydroperfluoro cyclobutane (83/2; b.j. 50-52°C; $\frac{d^{20}}{4}$ 1.441; $\frac{n^{20}}{D}$ 1.3025) was obtained by hydrogenating 1-hydroperfluoro cyclobutene on a Pd catalyst. It was then dehydrofluorinated into 1,2-dihydroperfluoro cyclobutene, b.p. 53-54°C, and dibromide, b.p. 117-119°C, and dehydrobromated into 1-tromo-2-hydrotetrafluoro cyclobutene, b.p. 72-74°C. 1,1,2,2-tetrahydroperfluoro cyclobutene, b.p. 72-74°C. 1,1,2,2-tetrahydroperfluoro cyclobutene, b.p. 50°C, n_D²⁰ 1.3038, was obtained by hydrogenating 1,2-dihydro-

perfluoro cyclobutene on Pd/Al203 at 60-70°C.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of

SUBMITTED:

April 12, 1962

Card 2/2

S/062/63/000/001/021/025 B101/B186

AUTHORS: Knunyants, I. L., and Krasuskaya, M. P.

T PERSONAL TRANSPORTATION OF THE PROPERTY OF T

TITLE: Derivatives of perfluoro dicarboxylic acids

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 1, 1963, 190 - 192

TEXT: The synthesis of perfluoro adipic acid (I), perfluoro sebacic acid (I), and perfluoro dodecamethylenic acid (III) by oxidation of the corresponding χ, ω -perfluoro diolefins has been described in a previous paper (Izv. AN SSSR, Otd. khim. n. 1961, no. 8, 1462). The following substances were synthesized in the present study: (1) Diethyl ester of I, yield 90%, b.p. 96-97°C/7 mm Hg, n_D^{20} 1.3541, d_A^{20} 1.426; diethyl ester of II, yield 95%, b.p. 118-120°C/5 mm Hg, n_D^{20} 1.3424, d_A^{20} 1.578; and diethyl ester of III, yield 70%, b.p. 142-143°C/5 mm Hg, n_D^{20} 1.3408, d_A^{20} 1.686, by reaction of I, II, and III, respectively, with absolute ethanol in the presence of fluosultionic acid; (2) dichloride of I, yield 78%, b.p. 130-132°C, n_D^{20} 1.3484; Card 1/3

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Derivatives of perfluoro ...

dichloride of II, yield 78%, b.p. 115-117°C/40 mm Hg, m.p. 29-30°C; and dichloride of III, yield 74%, b.p. 161°C, m.p. 92-95°C, by reaction with SOCl₂; (3) diamide of I, m.p. 255-238°C, diamide of II, m.p. 238-239°C, and diamide of III, m.p. 242-244°O, were obtained in 95-98% yields from the diethyl esters of I, II, and III by reaction with NH₃ gas in absolute ether; (4) dinitrile of I, b.p. 63°C, yield 77%, dinitrile of II, yield 80%, b.p. 147-148°C, n_D²⁰ 1.3039, d = 1.673, and dinitrile of III, b.p. 115-120°C/10 mm Hg, m.p. 78°C (from acetone), were obtained from the diamides of I, II, and III by reaction with P₂O₅ at 100-300°C; (5) amidine of I, m.p. 154°C, amidine of II, m.p. 173-175°C (with decomposition), and amidine of III, m.p. 187-190°C (with decomposition) were obtained in 96-99% yields from the dinitriles of I, II, and III by reaction with liquid NH₃; (6) ∠, ∠, ∠, ∠, ∠, tetrahydroperfluoro hexane diol, yield 80%, b.p. 118-120°C/11 mm Hg, m.p. 67-68°C, whose phenyl urethane complex, crystallized from CCl₄, has m.p. 140°C; ∠, ∠, ∠, ∠, ∠, Lettrahydroperfluoro decane diol; yield 90%, b.p. 132°C/4 mm Hg, Card 2/3

Derivatives of perfluoro ...

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m.p. 135-136°C, phenyl urethane complex m.p. 140-141°C; and ~, ~, ω, -tetra-hydroperfluoro tetradecane diol, yield 87%, m.p. 183-184°C, phenyl urethane complex m.p. 153-154°C, were obtained from the diethyl esters of I, II, and III by reaction with NaBH and AlCl in diglym (diethylene-glycol dimethyl ether).

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk of Sciences USSR)

SUBMITTED: August 30, 1962

TO THE REPORT OF THE PROPERTY OF THE PROPERTY

Card 3/3

KNUNYANTS, I.L.; KRASUSKAYA, M.P.; GAMBARYAN, N.P.

Nucleophilic addition of hydrogen halides to perfluoroisobutylene. Izv. AN SSSR, Ser. khim. no.4:723-726 165. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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ACC NR: AP7000736 SOURCE CODE: UR/0062/66/000/006/1110/1111	
KNUNYANTS, I. L., KRASUSKAYA, M. T., DEL'TSOVA, D. P., Institute of Hetero- organic Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh	•
soycdineniy AN SSSR) "Perfluorodiisocyanates"	
Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1110-1111	
Abstract: Perfluorodiisocyanates OCN(CF ₂) _n NCO (n = 3, 4, 8) were produced by reactions of perfluorodicarboxylic acid hydrazides with nitrous acid or perfluorocarboxylic acid chlorides with sodium azide, followed by rearrangement of these acid azides formed under the conditions of the Curtius reaction. Perfluoropolymethylenediisocyanates react vigorously with alcohols, to give the corresponding perfluoropolymethylenediurethans. Orig. art. has: 2 formulas. TOPIC TAGS: organic cyanate compound, fluorinated organic compound, azide SUB CODE: 07 / SUBM DATE: 100ec65 / CRIC DEE.	
SUB CODE: 07 / SUBM DATE: 10Dec65 / ORIG REF: 001 / OTH REF: 002	
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Card 1/1	
UDC: 542.91 + 547.239 + 546.1	· ·

KRASUSKAYA, N.A.; PAVLOV, B.V.

Characteristics of the inhibition of the delay in lower apes. Trudy Inst. fiziol. 10:238-244 62 (MIRA 17:3)

1. Laboratoriya sravnitel'noy fiziologii vyeshey nervnoy deyatel'nosti (zav. - B.V. Pavlov) Instituta fiziiologii imeni Pavlova AN SSSR.

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BARU, A.V.; BOLOTINA, O.P.; KRASUSKAYA. N.A.; LUKINA, Ye.V.; PAVLOV, B.V.; PRAZDNIKOVA, N.V.; ŠAF'YANTS, V.I.; CHEBYKIN, D.A.

Material on a study of the dynamics of conditioned reflex activity of representatives of certain classes of vertebrates. Trudy Inst. fiziol. 8:99-106 159. (MIRA 13:5)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zaveduyushchiy - B.V. Pavlov) Instituta fiziologii im. I.P.
Pavlova AN SSSR.

(NERVOUS SYSTEM--VERTEBRATES) (CONDITIONED RESPONSE)

KRASUSKAYA, N.A.; FIRSOV, L.A.

Dynamics of conditioned trace reflexes in hamadryad baboons seen with relation to cyclic changes in the sexual sphere. Trudy Inst. fiziol. 8:122-127 '59. (MIRA 13:5)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zaveduyushchiy - B.V. Pavlov) i Laboratoriya fiziologii i
patologii vysshey nervnoy deyatel'nosti (zaveduyushchiy - F.P.
Mayorov) Instituta fiziologii im. I.P. Pavlova AN SSSR.

(CONDITIONED RESPONSE) (ESTRUS)

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15-57-4-4280D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

p 34 (USSR)

AUTHOR:

Krasuskaya, N. Ye.

TITLE:

Geomorphology of the Cheremosh River Valley (Geomor-

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fologiya doliny reki Cheremosh)

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Geological and Mineralogical Sciences, presented to the L'vovsk. un-t (University of

Lvov), L'vov, 1956.

ASSOCIATION: L'vovsk. un-t (University of Lvov)

Card 1/1

KRASUSTAVA, E.Ye., Cand Geol Min Sci — (diss) "Geomorphology of the Cheremosh river valley." Lavov, 1959, 16 pp (Min of Migher Education UkSOR. Livov Poytechnical Inst) 150 (opies (KL, 36-59, 113)

- 23 -

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KRASUSKAYA, N.Ye. [Krasus'ks, N.E.]

Economic importance of the Cheremosh River Valley. Geog. zbir. no.4:191-193 '61. (MIRA 14:8)

(Cheremosh Valley--Economic geography)

SOBIECH, T.; KRASUSKI, J. (Wroclaw)

Value of dilute tuberculins in the diagnosis of tuberculosis in hens. Rocz nauk roln wet 70 no.1/4:166 '60. (EEAI 10:9)

(Poultry) (Tuberculosis) (Tuberculin)

KRASUSKI, Tadeusz; PECZAK, Jerzy

State of technology of the Polish production of plant protection agents. Pt. 1. Przem chem 40 no.9:485-488 S ¹61.

1. Zjednoczenie Przemyslu Organicznego i Worzyw Sztucznych, Warszawa.

KRASUSKI, Tadeusz; PECZAK, Jerzy

Technological development of the Polish production of plant protection agents. Pt. 2. Presen chem 40 no.10:545-548 0 161.

1. Zjednoczenie Przemyslu Organicznego i Tworzyw Sztucznych.

KRASUSKI, Tadousz, mgr inz.

Proper order in the raw material management in the chemical industry. Chemik 15 no.5:169-170 My '62.

1. Ministerstwo Przemyslu Chemicznego, Warszawa.